

**ELECTING A MASTER SERVER USING ELECTRONIC PERIODIC  
TIMER IN FAULT-TOLERANT DISTRIBUTED DYNAMIC NETWORK  
SYSTEMS**

**ABSTRACT OF THE DISCLOSURE**

A fault-tolerant server group operating in client-server distributed dynamic network system environment includes a master server which receives a request sent by a client. The fault-tolerant server group includes the master server and at least one back-up server. The master server communicates with both the client and the back-up servers. Each server in the fault-tolerant server group, including the master server and the back-up servers, has an election mechanism, enabling the fault-tolerant server group to elect a new master server when the master server fails. During the election, some of the election mechanisms are triggered at different times. The fault-tolerant server group processes the request from the client to generate processing result. The processing result is sent from the master server to the client.